

STATE OF CONNECTICUT CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051 Phone: (860) 827-2935 Fax: (860) 827-2950 E-Mail: siting.council@ct.gov Web Site: portal.ct.gov/csc

Hearing Program
Docket No. 491
Thursday, October 29, 2020
Zoom Remote Public Hearing

- I. Opening by Council
 - A. Statement read by Chair.
 - B. Administrative Notice taken by Council

FEDERAL

- 1. FEDERAL COMMUNICATIONS COMMISSION, OFFICE OF ENGINEERING AND TECHNOLOGY, Questions and Answers About Biological Effects and Potential Hazards of Radiofrequency Electromagnetic Fields, OET Bulletin No. 56, August 1999, available at https://transition.fcc.gov/Bureaus/Engineering Technology/Documents/bulletins/oet56/oet56e4.pdf
- 2. FEDERAL COMMUNICATIONS COMMISSION, OFFICE OF ENGINEERING AND TECHNOLOGY, Evaluating Compliance with FCC-Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields, OET Bulletin No. 65, August 1997, available at https://transition.fcc.gov/Bureaus/Engineering_Technology/Documents/bulletins/oet65/oet65.pdf
- 3. FEDERAL COMMUNICATIONS COMMISSION, Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation Report and Order, August 1, 1996, available at https://transition.fcc.gov/Bureaus/Engineering_Technology/Orders/1996/fcc96326.pdf
- 4. Telecommunications Act of 1996, as amended, Pub. L. No. 104-104, 110 Stat. 56 (codified as amended in scattered sections of 47 U.S.C), *available at* https://transition.fcc.gov/Reports/tcom1996.pdf
- 5. FEDERAL COMMUNICATIONS COMMISSION, *Warning, Alert and Response Network Act*, Pub. L. No. 109-437, 120 Stat. 1936 (2006), (codified at 47 U.S.C. §332(d)(1)) (2006), *available at* https://transition.fcc.gov/pshs/docs/emergency-information/cmas-warn-act.pdf
- 6. Wireless Communications and Public Safety Act of 1999, as amended, 47 U.S.C. §§ 615-615b, as amended, *available at* https://www.congress.gov/bill/106th-congress/house-bill/438/text/ih.
- 7. Enhance 911 Act of 2004, as amended, 47 U.S.C. § 942, as amended, *available at* https://www.gpo.gov/fdsys/pkg/PLAW-108publ494/pdf/PLAW-108publ494.pdf
- 8. Middle Class Tax Relief and Job Creation Act of 2012, Pub. L. No. 112-96, §6409 Wireless Facilities Deployment 2012, available at https://www.gpo.gov/fdsys/pkg/PLAW-112publ96/pdf

- Actions That May Have a Significant Environmental Effect, for Which Environmental Assessments (EAs) Must be Prepared, 47 C.F.R. § 1.1307, as amended, available at. https://www.gpo.gov/fdsys/pkg/CFR-2013-title47-vol1/pdf/CFR-2013-title47-vol1-sec1-1307.pdf
- 10. Radiofrequency Radiation Exposure Limits, 47 C.F.R. § 1.1310, as amended, *available at* https://www.gpo.gov/fdsys/pkg/CFR-2002-title47-vol1/pdf/CFR-2002-title47-vol1-sec1-1310.pdf
- 11. Presidential Proclamation No. 8460, 74 Fed. Reg. 234 (December 8, 2009), *available at* http://www.presidency.ucsb.edu/ws/index.php?pid=86954
- 12. Presidential Order No. 13616, Accelerating Broadband Infrastructure Development, 77 Fed. Reg. 119 (June 14, 2012), *available at* http://www.gpo.gov/fdsys/pkg/FR-2012-06-20/pdf/2012-15183.pdf
- 13. Presidential Policy Directive No. 21, Critical Infrastructure Security and Resilience, February 12, 2013, available at https://obamawhitehouse.archives.gov/the-press-office/2013/02/12/presidential-policy-directive-critical-infrastructure-security-and-resil
- 14. DIVISION OF MIGRATORY BIRD MANAGEMENT, UNITED STATES FISH & WILDLIFE SERVICE, UNITED STATES DEPARTMENT OF THE INTERIOR, Recommended Best Practices for Communication Tower Design, Siting, Construction, Operation, Maintenance and Decommissioning, last updated August 2016, available at https://www.fws.gov/migratorybirds/pdf/management/usfwscommtowerguidance.pdf
- 15. National Park Service, United States Department of the Interior, *National Register of Historic Places available at* https://www.nps.gov/nr/research/index.htm
- 16. FEDERAL AVIATION ADMINISTRATION, *Obstruction Marking and Lighting, Advisory Circular AC No. 70/7460-1L*, December 4, 2015, *available at* https://www.faa.gov/documentLibrary/media/Advisory Circular/AC 70 7460-1L .pdf
- 17. FEDERAL AVIATION ADMINISTRATION, Specification for Obstruction Lighting Equipment, Advisory Circular AC No. 150/5345-43J, March 11, 2019, available at https://www.faa.gov/documentLibrary/media/Advisory_Circular/150-5345-43J.pdf
- 18. FEDERAL COMMUNICATIONS COMMISSION, Opportunities to Reduce Bird Collisions with Communications Towers While Reducing Tower Lighting Costs, January 6, 2017, available at https://www.fws.gov/migratorybirds/pdf/management/fccopportunitiestoreducebirdcollisio ns.pdf
- 19. Stephen J. Blumberg, et al, *Wireless Substitution: Early Release of Estimates from the National Health Interview Survey, July December 2017*, Division of Health Interview Statistics, National Center for Health Statistics, U.S. Center of Disease Control, June 2018, *available at* https://www.cdc.gov/nchs/data/nhis/earlyrelease/wireless201806.pdf

Docket No. 491 Hearing Program October 29, 2020 Pg. 3

- 20. FEDERAL COMMUNICATIONS COMMISSION, *Public Notice Wireless Telecommunications Bureau Offers Guidance on Interpretation of Section 6409(a) of the Middle Class Tax Relief and Job Creation Act of 2012*, DA 12-2407, January 25, 2013, *available at* https://apps.fcc.gov/edocs_public/attachmatch/DA-12-2047A1.pdf
- 21. FEDERAL COMMUNICATIONS COMMISSION, Connecting America: The National Broadband Plan, 2010, *available at* http://www.broadband.gov/plan/
- 22. FEDERAL COMMUNICATIONS COMMISSION, *Text-to-911: Quick Facts & FAQs*, June 2013, *available at* http://www.fcc.gov/guides/text-911-quick-facts-faqs.
- 23. FEDERAL COMMUNICATIONS COMMISSION, *Wireless Infrastructure Report and Order*, FCC 14-153, October 21, 2014, *available at* http://www.fcc.gov/document/wireless-infrastructure-report-and-order
- 24. FEDERAL COMMUNICATIONS COMMISSION, *Second Report and Order*, FCC 18-30, March 30, 2018, *available at* https://docs.fcc.gov/public/attachments/FCC-18-30A1.pdf
- 25. FEDERAL COMMUNICATIONS COMMISSION, *Third Report and Order and Declaratory Ruling*, FCC 18-111, August 3, 2018, *available at* https://docs.fcc.gov/public/attachments/FCC-18-111A1.pdf
- 26. FEDERAL COMMUNICATIONS COMMISSION, *Third Report and Order*, FCC 18-133, September 27, 2018, *available at* https://docs.fcc.gov/public/attachments/DOC-353962A1.pdf
- 27. UNITED STATES DEPARTMENT OF AGRICULTURE, Soil Survey Manual, Handbook No. 18, March 2017, *available at* https://www.nrcs.usda.gov/wps/portal/nrcs/detailfull/soils/ref/?cid=nrcs142p2_054262

STATE

Connecticut Siting Council

- 28. STATE OF CONNECTICUT SITING COUNCIL, Statewide Plan for Wireless Telecommunications Coverage, Revised October 2018, available at https://www.ct.gov/csc/lib/csc/publications/2018telcomplan_final.pdf
- 29. STATE OF CONNECTICUT SITING COUNCIL, *Telecommunications Facilities: An Illustrated Primer on the Siting of Facilities Within Connecticut and Throughout the Nation, Version II, available at* http://www.ct.gov/csc/lib/csc/csc_tower_3_07.pdf
- 30. STATE OF CONNECTICUT SITING COUNCIL, *Statewide Telecommunications Coverage Database*, *available at* http://www.ct.gov/csc/cwp/view.asp?a=895&Q=248312&cscNav=1
- 31. **DOCKET NO. 432** Feasibility study of back-up power requirements for telecommunications towers and antennas pursuant to Public Act 12-148, *available at* http://www.ct.gov/csc/cwp/view.asp?a=962&Q=511254&PM=1

Department of Energy and Environmental Protection

- 32. STATE OF CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION, Connecticut Guidelines for Soil Erosion and Sediment Control, DEP Bulletin 34, last revised September 2007, available at http://www.ct.gov/deep/cwp/view.asp?a=2720&q=325660&depNav GID=1654
- 33. STATE OF CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, *The Connecticut Stormwater Quality Manual*, 2004 and appendices, *available at* http://www.ct.gov/deep/cwp/view.asp?a=2721&q=325704&depNav_GID=1654
- 34. STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, BUREAU OF WATER PROTECTION AND LAND REUSE, PLANNING AND STANDARDS DIVISION, *Water Quality Standards*, Effective October 10, 2013, *available at* http://www.ct.gov/deep/lib/deep/regulations/22a/22a-426-1through9.pdf
- 35. STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, *Connecticut Air Quality Standards*, Effective April 15, 2014, Regulations of Connecticut State Agencies §§ 22a-174-24, et seq.
- 36. STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, *Connecticut Noise Control Regulations*, Effective June 15, 1978, Regulations of Connecticut State Agencies §§22a-69-1, et seq.
- 37. STATE OF CONNECTICUT, DEPT. OF PUBLIC UTILITY CONTROL, Docket No. 08-06-19, DPUC Investigation into the Deployment of Distributed Antenna System (DAS) in the Public Rights of Way, September 29, 2010.
- 38. STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, BUREAU OF NATURAL RESOURCES, Connecticut's Endangered, Threatened and Special Concern Species 2015, August 2015, available at http://www.ct.gov/deep/lib/deep/wildlife/pdf_files/nongame/ETS15.pdf
- 39. STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, BUREAU OF NATURAL RESOURCES, *Connecticut's Wildlife Action Plan*, 2015 Revision, available at http://www.ct.gov/deep/cwp/view.asp?a=2723&q=329520&deepNav_GID=1719#Review
- 40. PUBLIC UTILITIES REGULATORY AUTHORITY, Connecticut Public Utilities Cybersecurity Action Plan, April 6, 2016, available at http://www.ct.gov/pura/lib/pura/electric/cyber_report_April_6_2016.pdf
- 41. STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, BUREAU OF WATER MANAGEMENT, WETLANDS MANAGEMENT SECTION, Guidelines: Upland Review Area Regulations, Connecticut's Inland Wetlands and Watercourses Act, June 1997, available at http://www.ct.gov/deep/lib/deep/water_inland/wetlands/upland_review_document_june1997.pdf

Department of Transportation

- 42. STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION, *ConnDOT Drainage Manual* 2000, last revised December 2003, *available at* http://www.ct.gov/dot/cwp/view.asp?a=3200&q=260116
- 43. STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION, *Policy Statement for Telecommunications Installations Within the State Highway Right of Way, Policy No. E&H.O.* 53, August 7, 2006, *available at* http://www.ct.gov/csc/lib/csc/row ps.pdf

Other State Agencies

- 44. STATE OF CONNECTICUT OFFICE OF POLICY AND MANAGEMENT, Conservation and Development Policies Plan for Connecticut 2013-2018, June 5, 2013, available at http://www.ct.gov/opm/lib/opm/igp/org/cdupdate/2013-2018_cd_plan.pdf
- 45. STATE OF CONNECTICUT DEPARTMENT OF PUBLIC HEALTH, Environmental and Occupational Health Assessment, Radiation Cell Phone Towers Questions and Answers about Health, May 2015, available at http://www.ct.gov/dph/lib/dph/environmental_health/eoha/pdf/051115_cell_phone_tower_final.pdf
- 46. STATE OF CONNECTICUT DEPARTMENT OF PUBLIC HEALTH, Cell Phones Questions and Answers about Safety, May 2015, available at http://www.ct.gov/dph/lib/dph/environmental health/eoha/toxicology risk assessment/050 815 cell phones final.pdf
- 47. STATE OF CONNECTICUT, STATE VEGETATION MANAGEMENT TASK FORCE, Final Report Issued to the Connecticut Department of Energy and Environmental Protection, August 28, 2012, available at http://www.ct.gov/deep/lib/deep/forestry/vmtf/final_report/symtf final_report.pdf
- 48. Final Report of the Two Storm Panel, January 9, 2012, *available at* http://www.governor.ct.gov/malloy/lib/malloy/two_storm_panel_final_report.pdf
- 49. STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION AND DEPARTMENT OF EMERGENCY SERVICES AND PUBLIC PROTECTION, 2014 Connecticut Natural Hazard Mitigation Plan Update, January 2014, available at http://www.ct.gov/deep/lib/deep/water-inland/hazard-mitigation/ct-nhmp-adopted-final.p-df
- 50. GOVERNOR'S STEERING COMMITTEE ON CLIMATE CHANGE, ADAPTATION SUBCOMMITTEE, Connecticut Climate Change Preparedness Plan, Adaptation Strategies for Agriculture, Infrastructure, Natural Resources and Public Health Climate Change Vulnerabilities, 2011, available at http://www.ct.gov/deep/lib/deep/climatechange/connecticut_climate_preparedness_plan_2011.pdf
- 51. CONNECTICUT DEPARTMENT OF EMERGENCY SERVICES AND PUBLIC PROTECTION, *CT Text to 911*, 2018, *available at* https://www.text911ct.org/

- Pg. 6
- 52. STATE OF CONNECTICUT, EXECUTIVE ORDER NO. 7B, Protection of Public Health and Safety During COVID-19 Pandemic and Response – Further Suspension or Modification of Statutes, March 14, 2020, available at https://portal.ct.gov/-/media/Office-of-the-Governor/Executive-Orders/Lamont-Executive-Orders/Executive-Order-No-7B.pdf
- 53. Manor Development Corp. v. Conservation Comm. of Simsbury, 180 Conn. 692, 701 (1980).
- 54. Grimes v. Conservation Comm. of Litchfield, 243 Conn. 266, 278 (1997).

TECHNICAL

- 55. INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz, IEEE Std. C95.1-2005, November 1, 2009, available at https://standards.ieee.org/findstds/standard/C95.1-2005.html
- 56. TELECOMMUNICATIONS INDUSTRY ASSOCIATION & ELECTRONICS INDUSTRIES ASSOCIATION, Structural Standards for Steel Antenna Towers and Antenna Supporting Structures, TIA/EIA-222-G (2006), available at https://global.ihs.com/search_res.cfm?RID=TIA&INPUT_DOC_NUMBER=TIA-222
- 57. TELECOMMUNICATIONS INDUSTRY ASSOCIATION, Structural Standards for Antenna Supporting Structures, Antennas and Small Wind Turbine Support Structures, TIA-222-H, effective January 1, 2018, available at https://global.ihs.com/search_res.cfm?RID=TIA&INPUT_DOC_NUMBER=TIA-222%20
- 58. Letter from The Connecticut Light and Power Company, to Christopher B. Fisher, Esq., Attorney, Cuddy & Feder, LLP regarding CL&P policy on the installation of cellular and PCS antennas on electric transmission structures, February 19, 2010, available at http://www.ct.gov/csc/lib/csc/pendingproceeds/docket_388/do388-20100312_supplemental_submission.pdf
- 59. HEALTH PROTECTION AGENCY, Health Effects From Radiofrequency Magnetic Fields, Report of the Independent Advisory Group on Non-Ionising Radiation, April 2012, available at https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/333080/RCE -20 Health Effects RF Electromagnetic fields.pdf
- 60. CISCO SYSTEMS, INC., Cisco Visual Networking Index: Forecast and Trends, 2017-2022 White Paper, February 27, 2019, available at, https://www.cisco.com/c/en/us/solutions/collateral/service-provider/visual-networkingindex-vni/white-paper-c11-741490.html

ENVIRONMENTAL

- 61. RICHARD M. DEGRAAF & DEBORAH D. RUDIS, *New England Wildlife: Habitat, Natural History, and Distribution*, University of Massachusetts Press 1983, *available at* http://www.treesearch.fs.fed.us/pubs/4148
- 62. UNITED STATES ARMY CORPS OF ENGINEERS, NEW ENGLAND DISTRICT, *Vernal Pool Best Management Practices*, January 2015, *available at* https://www.nae.usace.army.mil/Portals/74/docs/regulatory/VernalPools/VPBMPsJan2015.pdf
- 63. Christopher Barton and Karen Kinkead, *Do Erosion Control and Snakes Mesh?*, Journal of Science and Water Conservation 2005, Volume 60, Number 2, *available at* http://www.treesearch.fs.fed.us/pubs/21050
- 64. UNITED STATES ARMY CORPS OF ENGINEERS, NEW ENGLAND DISTRICT, The Highway Methodology Workbook, October 1993, available at http://www.nae.usace.army.mil/Portals/74/docs/regulatory/Forms/HighwayMethodBook.pd f
- 65. UNITED STATES ARMY CORPS OF ENGINEERS, NEW ENGLAND DISTRICT, The Highway Methodology Workbook Supplement, Wetland Functions and Values, September 1999, available at http://www.nae.usace.army.mil/Portals/74/docs/regulatory/Forms/HighwaySupplement6Apr2015.pdf
- 66. UNITED STATES ARMY CORPS OF ENGINEERS, General Permits for the State of Connecticut & Lands Located Within the Boundaries of an Indian Reservation, Effective Date August 19, 2016, Expiration Date August 19, 2021, available at:

 https://www.nae.usace.army.mil/portals/74/docs/regulatory/StateGeneralPermits/CT/Connecticut_General_Permits-August_2016.pdf
- 67. STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, INLAND FISHERIES DIVISION, Habitat Conservation and Enhancement Program, Stream Crossing Guidelines, February 26, 2008, available at https://www.ct.gov/deep/lib/deep/fishing/restoration/streamcrossingguidelines.pdf

MAPS

- 68. UNITED STATES DEPARTMENT OF THE INTERIOR, NATIONAL PARK SERVICE, *Interactive National Heritage Areas Map, available at* https://www.nps.gov/maps/full.html?mapId=01a03739-ab0c-40eb-bc3d-6791d3bb67fa
- 69. STATE OF CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, Natural Diversity Database Map for the Town of Norwich, (last updated June 2020), available at https://www.depdata.ct.gov/naturalresources/endangeredspecies/nddbpdfs.asp

- 70. STATE OF CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, Statewide Aquifer Protection Area Maps, Norwalk map last updated August 26, 2019, available at https://portal.ct.gov/DEEP/Aquifer-Protection-and-Groundwater/Aquifer-Protection/Aquifer-Protection-Area-Maps
- 71. STATE OF CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, Northern long-eared bat areas of concern in Connecticut to assist with Federal Endangered Species Act Compliance, last updated March 6, 2019, available at https://portal.ct.gov/-/media/DEEP/endangered_species/images/nlebmappdf.pdf?la=en
- 72. UNIVERSITY OF CONNECTICUT, CONNECTICUT ENVIRONMENTAL CONDITIONS ONLINE, Connecticut Critical Habitats and Open Space, last updated November 28, 2012, available at http://cteco.maps.arcgis.com/home/item.html?id=a1bf59798c5b45a98aeaeb97dafd60b9
- 73. CONNECTICUT FOREST & PARK ASSOCIATION, CONNECTICUT WALK BOOK 20TH ED. 2017. available at http://www.ctwoodlands.org/connecticut-walk-book-20th-edition
- 74. NATIONAL AUDUBON SOCIETY, Connecticut Important Bird Areas, available at http://netapp.audubon.org/iba/state/US-CT
- 75. Mail-A-Map Street Map, (Norwich), available at http://mailamap.com/street-maps
- 76. UNITED STATES GEOLOGICAL SURVEY, topoview (Norwich, CT Quadrangle, 2018) available at https://ngmdb.usgs.gov/topoview/viewer/#12/41.5682/-72.2229
- C. State Agency comments
 - 1. State of Connecticut Department of Transportation Comment, dated September 15, 2020
- D. Telecommunications Carrier Comments
 - 1. T-Mobile Comments, dated October 2, 2020

II. Appearance	by A	App.	licant
----------------	------	------	--------

Applicant: Cellco Partnership d/b/a Verizon Wireless

(Cellco)

Representative: Kenneth C. Baldwin, Esq.

Robinson & Cole LLP

A. Administrative Notice.

1.

B. Exhibits for Identification.

- 1. Application for a Certificate of Environmental Compatibility and Public Need filed by Cellco Partnership d/b/a Verizon Wireless, received July 7, 2020, and attachments and bulk file exhibits including:
 - a. Technical Report, dated March 4, 2020
 - b. City of Norwich Zoning Regulations
 - c. City of Norwich Inland Wetlands and Watercourses Regulations;
 - d. City of Norwich Plan of Conservation and Development
- 2. Applicant's Responses to Council Interrogatories, Set One, dated September 23, 2020
- 3. Protective Order related to unredacted lease agreement, signed September 24, 2020
- 4. Applicant's Supplemental Response to Council Interrogatory 26 with Attachment, dated October 1, 2020
- 5. Applicant's Corrected Affidavit of Timothy Parks, received October 5, 2020
- 6. Applicant's Supplemental Response to Council Interrogatory 3 with Attachment, dated October 9, 2020
- 7. Applicant's Sign Posting Affidavit, dated October 15, 2020

C. Swear Witnesses

- 1. Timothy Parks, Real Estate Regulatory Specialist, Verizon Wireless
- 2. Wesley Steven, Radio Frequency Design Engineer, Verizon Wireless
- 3. David Weinpahl, P.E., Managing Partner, On-Air Engineering, LLC
- 4. Brian Gaudet, Project Manager, All-Points Technology Corporation P.C.
- 5. Michael Libertine, LEP, Director of Siting and Permitting, All-Points Technology Corporation P.C.
- 6. Dean Gustafson, Senior Wetland Scientist and Professional Soil Scientist, All-Points Technology Corporation P.C.
- D. Full Exhibits Verification of exhibits by witnesses and admission by the Council.
- E. Cross Examination.
 - 1. Council
- III. Closing by Connecticut Siting Council.